

Northeast Region Inventory and Monitoring Program

Example Vegetation Mapping Deliverables and Mapping Report Guidelines

Version: 2004

Deliverable
1. Aerial photos, including flight line map and photo index
2. Photo mosaic as paper copy and digital* format
3. Verified veg plot survey data (in TNC PLOTS format) with differentially corrected GPS geographic coordinates*
4. Verified soil and site characteristics data in Access format with differentially corrected GPS geographic coordinates*
5. Annotated field survey forms with plot data
6. Accuracy assessment (AA) data in Access format with differentially corrected GPS geographic locations*
7. Annotated AA field forms
8. Digital photos of sites representative of all veg types
9. Database of photo information (photo ID or name watermarked on the photo, photopoint geographic coordinates, direction of view, date, time, plot ID, and veg association type) in Access format*
10. Final map of veg associations in digital* and paper copy. Digital version should be on CD as a GIS layer in ArcView 3.2 or other ArcInfo-acceptable format.
11. Final report in paper and digital copy formats. See attachment for suggested contents of final report. Because the final report will be made available on an NPS website, it must be submitted on a zip disk or compact disc (CD) containing all of the following: (a) a Microsoft Word 6.0 (or higher) document in its entirety, containing all text, tables, and figures; (b) a Microsoft Word 6.0 (or higher) document containing just the text and tables; and (c) each figure as an independent TIFF (Tag Image File Format) document.
* requires FGDC-compliant spatial metadata

Vegetation Mapping Project Report Guidelines

Project reports submitted to the NPS Vegetation Mapping Program should include, but are not limited to the following contents. If, on occasion, any of these topics are inapplicable to the specific park in question, they may be deleted.

Table of Contents

- List of Tables
- List of Figures
- List of Contacts
- List of Contributors
- Acknowledgements

Executive Summary

Introduction

- General Background
- Specific Park Information

Project Area

- Location and Regional Setting
- Park Attributes Related to the Vegetation Mapping Project

Materials and Methods

- Planning and Scoping
- Preliminary Data Collection & Review of Existing information
- Aerial Photography Acquisition
- Map of flight line
- Photo mosaic development and horizontal accuracy assessment
- Development of Special Mapping & Data Collection Criteria
(*Changes to established protocols - if applicable*)
- Field Data Collection & Classification
 - Environmental Gradient Transect (Gradsect) Design (*If applicable*)

- Field Survey

- Map of vegetation survey plot locations
- Vegetation Classification and Characterization

Vegetation Map Preparation

- Photo Interpretation
- Quality Control of Photo Interpretations
- Field Verification
- Data Conversion

Accuracy Assessment

- Data Collection
- Map of accuracy assessment plot locations
- Analysis

Results

- Vegetation Classification and Characterization
- Vegetation Map Production

- Map Units
 - Aerial Photograph Interpretation
 - Digital Transfer
- Accuracy Assessment
 - Spatial Accuracy
 - Vegetation Type Accuracy
- Discussion
 - Vegetation Classification and Characterization
 - Vegetation Map Production
 - Recommendations for Future Projects
- Bibliography
- Appendices:
 - Index of USGS 7.5-Minute Topographic Quad Maps for XXXX National Park (*If applicable*)
 - Index to Photos
 - Observation Point Form
 - Plot Survey Form
 - Accuracy Assessment Data Form
 - Field Key to the NVCS Vegetation Associations
 - Photo Interpretation Mapping Units, Codes, Protocols and Visual Photo Interpretation Key
 - Park's GIS Database Design, Layout, and Procedures (*if applicable*)
 - Metadata (*3 files: Spatial Vegetation Data, Vegetation Sampling Plots Field Data, and Accuracy Assessment Data*)
 - Detailed NVCS Vegetation Classification Class Descriptions
 - Species List (*Species obtained from all plot and observation data points collected as part of the USGS-NPS Vegetation Mapping Program project*)
 - Annotated List of Ground Photos (*Should include at least one photo of each Vegetation Association, and recommend at least one photo of each Vegetation Plot*)
- CD-ROM
- Hardcopy Maps